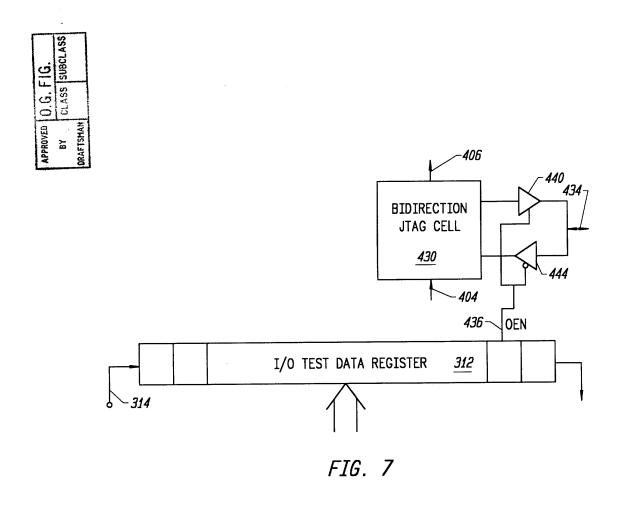
EXHIBIT 3 5 of 6

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R - RETAIN

X - DISCONNECT

FIG. 6





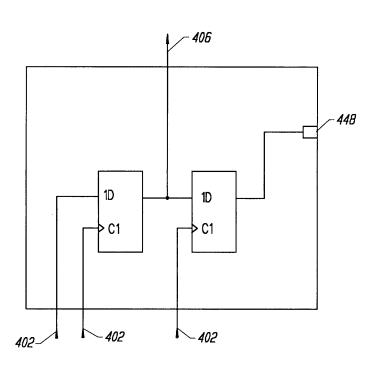


FIG. 8

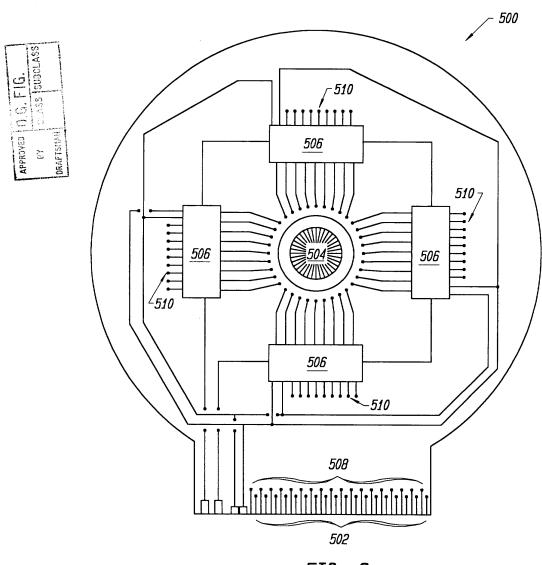
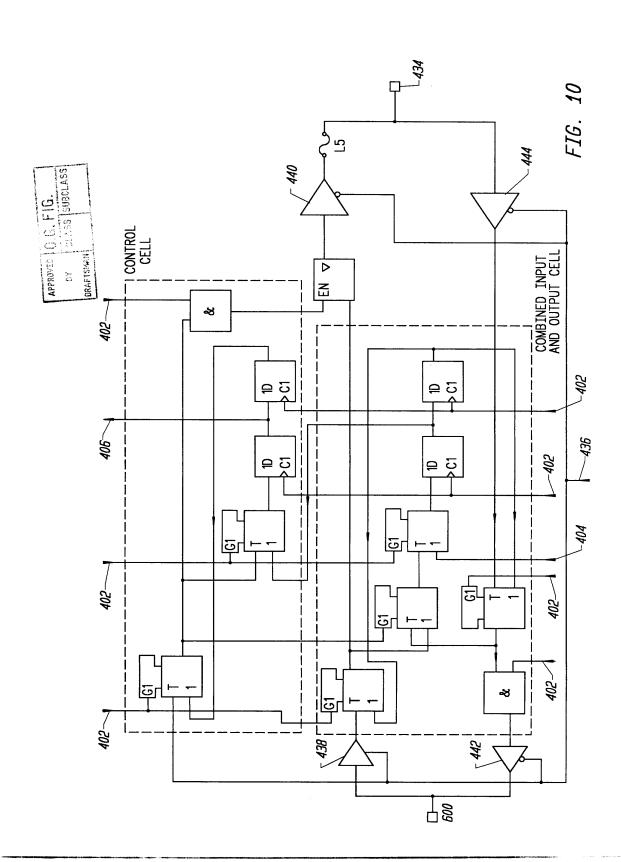


FIG. 9



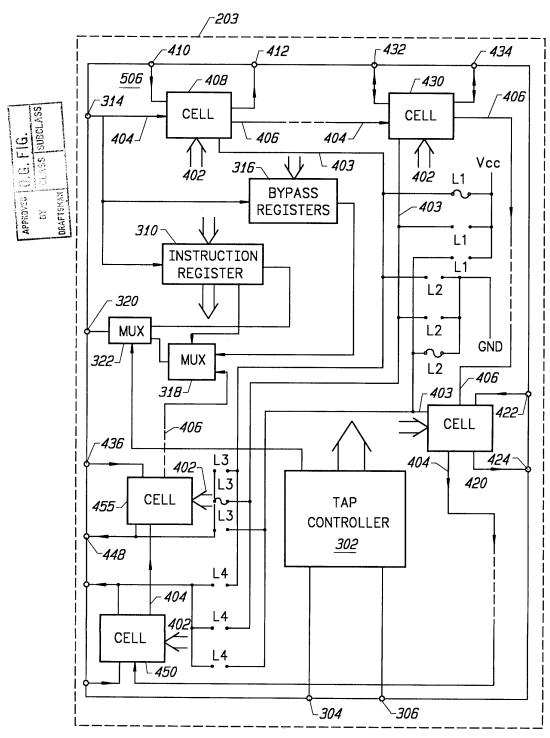


FIG. 11

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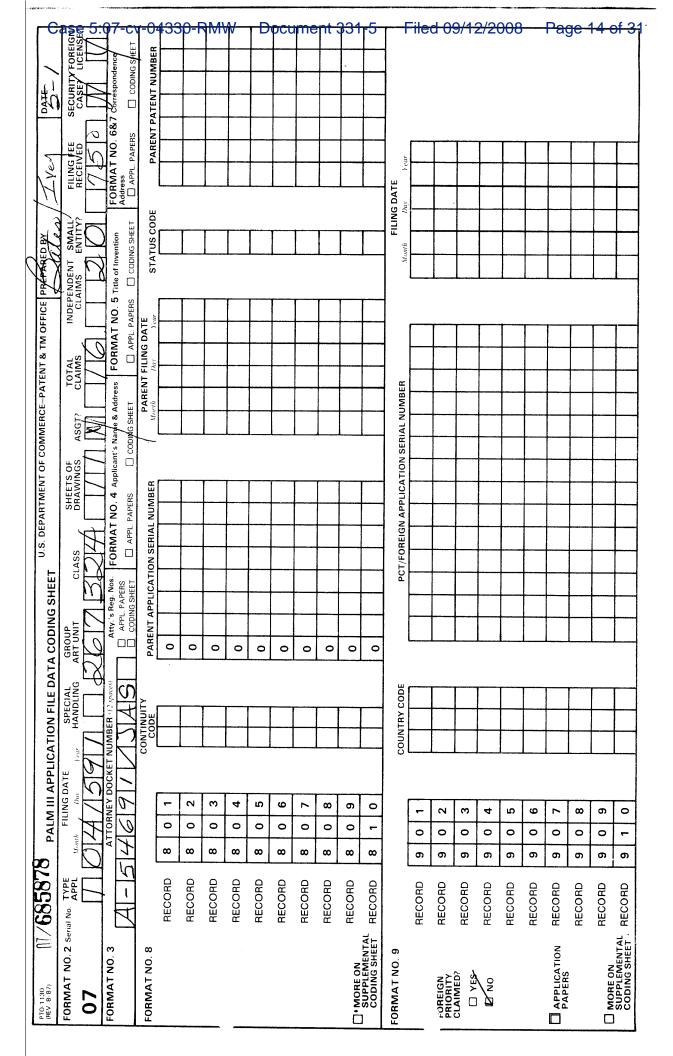
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07/685878

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Date: April 15, 1991 File No. A-54691/JAS

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TYPED NAME Roberta Morehead SIGNED

sir:

Transmitted herewith for filing is the patent application of Inventor(s):

DANIEL B. D'SOUZA

For: ACTIVE PROBE CARD

Prior Art Statement X 11 Sheets of drawing, Formal, Informal X An Assignment of the invention to: Power of Attorney by Assignee & Exclusion of Inventor Under 37 CFR Combined Declaration and Power of Attorney for Patent Application X Declaration for Patent Application (UNEXECUTED) Associate Power of Attorney Small Entity Status Declaration Under 37 CFR (Col. 1) (Col. 2) SMALL ENTITY FOR: NO. FILED NO. EXTRA RATE FEE OR RATE FE BASIC FEE \$315 OR \$6 TOTAL CLAIMS 16-20 = *_0	
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Respectfully submitted,

James A. Sheridan 301 Registration No. 25,435 FLEHR, HOHBACH, TEST, ALBRITTON & HERBERT

Suite 3400, Four Embarcadero Center San Francisco, California 94111-4187 Telephone: (415) 781-1989

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Transmitted herewith for filing is the	e patent application of Inventor(s):
DANIEL B. I	O'SOUZA	
For: ACTIVE PROBE CARD		
Enclosed are also: Prior Art Statement X 11 Sheets of drawing, Formation to An Assignment of the invention to Power of Attorney by Assignee & Extended Declaration and Power of X Declaration for Patent Application Associate Power of Attorney	cclusion of Inventor Under 37 CFR Attorney for Patent Application	 1.32
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Respectfully submitted,

James A. Sheridan

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Registration No. 25,435
FLEHR, HOHBACH, TEST,
ALBRITTON & HERBERT
Suite 3400, Four Embarcadero Center San Francisco, California 94111-4187 Telephone: (415) 781-1989



UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office

Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

APPLICATION NUMBER FILING DATE FIRST NAMED APPLICANT ATTY DOCKET NO/TITLE 07/685,878 04/15/91 D'SOUZA

FLEHR, HOHBACH, TEST ALBRITTON & HERBERT STE. 3400, FOUR EMBARCADERO CENTER SAN FRANCISCO, CA 94111

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DATE MAILED:

05/08/91

A-54691/JAS

NOTICE TO FILE MISSING PARTS OF APPLICATION

	FILING DATE GRANTED
A fili	ng date has been granted to this application. However, the following parts are missing.
	missing parts are filed within the period set below, the total amount owed by applicant as a
Har	ge entity, \square small entity (verified statement filed), is \$ \square
1. 🗆	The statutory basic filing fee is: \square missing \square insufficient. Applicant as a \square large entity
	☐ small entity, must submit \$ to complete the basic filing fee and MUST ALSO SUBMIT THE SURCHARGE AS INDICATED BELOW.
2. 🗆	Additional claim fees of \$as a \square\text{large entity} \squaresmall entity, including any required multiple dependent claim fee, are required. Applicant must submit the additional claim fees or cancel the additional claims for which fees are due. NO SURCHARGE IS REQUIRED FOR THIS ITEM.
3. □	The oath or declaration: is missing. does not cover items omitted at time of execution.
	An oath or declaration in compliance with 37 CFR 1.63, identifying the application by the above Application Number and Filing Date is required. A SURCHARGE MUST ALSO BE SUBMITTED AS INDICATED BELOW.
4. □	The oath or declaration does not identify the application to which it applies. An oath or declaration in compliance with 37 CFR 1.63, identifying the application by the above Application Number and Filing Date is required. A SURCHARGE MUST ALSO BE SUBMITTED AS INDICATED BELOW.
5. D	The signature to the oath or declaration is: I missing; I a reproduction; I by a person other than the inventor or a person qualified under 37 CFR 1.42, 1.43, or 1.47. A properly signed oath or declaration in compliance with 37 CFR 1.63, identifying the application by the above Application Number and Filing Date is required. A SURCHARGE MUST ALSO BE SUBMITTED AS INDICATED BELOW
6. □	The signature of the following joint inventor(s) is missing from the oath or declaration:
	. An oath or declaration listing the names of all inventors and signed by the omitted inventor(s), identifying this application by the above Application Number and Receipt Date is required. A SURCHARGE MUST ALSO BE SUBMITTED AS INDICATED BELOW.
7. 🗆	The application was filed in a language other than English. Applicant must file a verified English translation of the application and a fee of \$30.00 under 37 CFR 1.17(k), unless this fee has already been paid. NO SURCHARGE IS RERQUIRED FOR THIS ITEM.
8. □	A \$50.00 processing fee is required for returned checks. (37 CFR 1.21(m)).
9. □	Your filing receipt was mailed in error because check was returned without payment.
10. □	Other.
	An Application Number and Filing Date have been assigned to this application. The missing parts and fees identified above in items 1 and 3-6 must be timely provided ALONG WITH THE PAYMENT OF A SURCHARGE of \$120.00 for large entities or \$60.00 for small entities who have filed a verified statement claiming such status. The surchage is set forth in 37 CFR 1.16(e). Applicant is given ONE MONTH FROM THE DATE OF THIS LETTER, OR TWO MONTHS FROM THE FILING DATE of this application, WHICHEVER IS LATER, within which to file all missing parts and pay any fees required above to avoid abandonment. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).
	the response to, and any questions about, this notice to ATTENTION: Application Division, l Handling Unit.

(703) 557-

For: Manager, Application Division A.

A copy of this notice <u>MUST</u> be returned with response.

120-105-A/N



UNITED STA 3 DEPARTMENT OF COMMERCE Patent and Trademark Office

Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

FILING DATE

institution for a propertial

FIRST NAMED APPLICANT

ATTY DOCKET NO TITLE

TIEBE, HOHEACH, TEST

ALMETTERS & HENDERT STE. 1400, FOUR EMBARCADERO CENTER. THE PRINCIPLE. CA 9,711

Out

DATE MAILED:

11% De 113

- An Scholing Addition

NOTICE TO FILE MISSING PARTS OF APPLICATION FILING DATE GRANTED

A filing	g date has been granted to this application. However, the following parts are missing.
If all n	nissing parts are filed within the period set below, the total amount owed by applicant as a
Harge	e entity, \square small entity (verified statement filed), is \$ \(\frac{1}{2} \ldots \).
1. 🗆	The statutory basic filing fee is: \square missing \square insufficient. Applicant as a \square large entity
	□ small entity, must submit \$ to complete the basic filing fee and MUST ALSO SUBMIT THE SURCHARGE AS INDICATED BELOW.
	Additional claim fees of $\$ as a \square large entity \square small entity, including any required multiple dependent claim fee, are required. Applicant must submit the additional claim fees or cancel the additional claims for which fees are due. NO SURCHARGE IS REQUIRED FOR THIS ITEM.
	The oath or declaration: ☐ is missing. ☐ does not cover items omitted at time of execution.
	An oath or declaration in compliance with 37 CFR 1.63, identifying the application by the above Application Number and Filing Date is required. A SURCHARGE MUST ALSO BE SUBMITTED AS INDICATED BELOW.
	The oath or declaration does not identify the application to which it applies. An oath or declaration in compliance with 37 CFR 1.63, identifying the application by the above Application Number and Filing Date is required. A SURCHARGE MUST ALSO BE SUBMITTED AS INDICATED BELOW.
-	The signature to the oath or declaration is: \square missing; \square a reproduction; \square by a person other than the inventor or a person qualified under 37 CFR 1.42, 1.43, or 1.47. A properly signed oath or declaration in compliance with 37 CFR 1.63, identifying the application by the above Application Number and Filing Date is required. A SURCHARGE MUST ALSO BE SUBMITTED AS INDICATED BELOW
6. 🗆	The signature of the following joint inventor(s) is missing from the oath or declaration:
	. An oath or declaration listing the names of all inventors and signed by the omitted inventor(s), identifying this application by the above Application Number and Receipt Date is required. A SURCHARGE MUST ALSO BE SUBMITTED AS INDICATED BELOW.
	The application was filed in a language other than English. Applicant must file a verified English translation of the application and a fee of \$30.00 under 37 CFR 1.17(k), unless this fee has already been paid. NO SURCHARGE IS RERQUIRED FOR THIS ITEM.
8. 🗆	A \$50.00 processing fee is required for returned checks. (37 CFR 1.21(m)).
9. 🗆	Your filing receipt was mailed in error because check was returned without payment.
	Other.
	An Application Number and Filing Date have been assigned to this application. The missing parts and fees identified above in items 1 and 3-6 must be timely provided ALONG WITH THE PAYMENT OF A SURCHARGE of \$120.00 for large entities or \$60.00 for small entities who have filed a verified statement claiming such status. The surchage is set forth in 37 CFR 1.16(e). Applicant is given ONE MONTH FROM THE DATE OF THIS LETTER, OR TWO MONTHS FROM THE FILING DATE of this application, WHICHEVER IS LATER, within which to file all missing parts and pay any fees required above to avoid abandonment. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).
Direct 1	the response to, and any questions about, this notice to ATTENTION: Application Division,
	Handling Unit. 1 105 120.00 CK
	A copy of this notice <u>MUST</u> be returned with response.
	A copy of this notice MUST be returned with response.
For: M	Ianager, Application Division All.
(703) 5	557- 568 120-

FORM PTO-1533 (REV. 6-90)

COPY TO BE RETURNED WITH RESPONSE



DECLARATION FOR PATENT APPLICATION

below-named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled <u>ACTIVE PROBE CARD</u>

the specificat	tion of which	
(check one)	is attached hereto.	
	X was filed on April 15, 1991 as Application Serial No. 07/685,878 and was amended on (if applicable)	

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examinatio of this application in accordance with Title 37, Code of Federal Regulations, §1.56(a).

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

Prior Foreig	gn Application(s)		Priority	Claimed
(Number)	(Country)	(Day/Month/Year Filed)	Yes	No
(Number)	(Country)	(Day/Month/Year Filed)	Yes	No
(Number)	(Country)	(Day/Month/Year Filed)	Yes	No

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulation, §1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

(Application Serial No.)	(Filing Date)	(Status)
		(patented, pending, abandoned)
(Application Serial No.)	(Filing Date)	(Status)
	3	(patented, pending, abandoned)

Direct all telephone calls to James A. Sheridan at (415) 494-8700.

Address all correspondence to:

FLEHR, HOHBACH, TEST ALBRITTON & HERBERT
Suite 3400, Four Embarcadero Center

// San Francisco, California 94111

File No. A-54681/JAS

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Title 18, United States Code, \$1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole or first inventor:	∠co/- \$ ↑
Inventor's signature:	Klasir 1
Date:	5/21/91
Residence:	Santa Clara County, California
Citizenship:	United States of America
Post Office Address:	17999 Saratoga-Los Gatos Road
· ·	Monte Sereno, California 95030



POWER OF ATTORNEY BY ASSIGNEE AND EXCLUSION OF INVENTOR UNDER 37 C.F.R.1.32 (Not Accompanying Application)

To the Commissioner of Patents and Trademarks

The undersigned assignee of the entire interest in application for letters patent entitled ACTIVE PROBE CARD, and having the following-named inventor:

Daniel B. D'Souza

Serial No. 07/685,878 filed April 15, 1991 , hereby appoints the following attorneys to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith; said appointment to be to the exclusion of the inventor(s) and his (their) attorney(s) in accordance with the provisions of 37 C.F.R. 1.32: Harold C. Hohbach, Reg. 17,757; Aldo J. Test, Reg. 18,048; Thomas O. Herbert, Reg. 18,612; Donald N. MacIntosh, Reg. 20,316; Jerry G. Wright, Reg. 20,165; Edward S. Wright, Reg. 24,903; David J. Brezner, Reg. 24,774; Richard E. Backus, Reg. 22,701; James A. Sheridan, Reg. 25,435; Robert B. Chickering, Reg. 24,286; Willis E. Higgins, Reg. 23,025; Gary S. Williams, Reg. 31,066; Richard F. Trecartin, Reg. No. 31,801; Stephen C. Durant, Reg. No. 31,506; C. Michael Zimmerman, Reg. No. 20,451; and Walter H. Dreger, Reg. No. 24,190; provided that if any one of said attorneys ceases being affiliated with the law firm of Flehr, Hohbach, Test, Albritton and Herbert as partner, employee or of counsel, such attorney's appointment as attorney and all powers derived therefrom shall terminate on the date such attorney ceases being so affiliated.

Direct all telephone calls to James A. Sheridan at (415) 494-8700. Address all correspondence to:

601	FLEHR, HOHBACH, TEST, ALBRITTON & HERBERT 602—Suite 3400, Four Embarcadero Center San Francisco, CA 94111
	HITACHI AMERICA, LTD.
	Man
	Name: John Gleason Title: Vice President
ate: _	May 20 , 1991

File No. A-54681/JAS



UNITED STAT DEPARTMENT OF COMMERCE Patent and Trademark Office

Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

BERIAL NUMBER FILING DATE FIRST	NAMED INVENTOR	ATTORNEY DOCKE: HE
07/685,878 04/15/91 D'SOUZA	D	A-54691/JAS
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FLEHR, HOHBACH, TEST ALBRITTON & HERBERT		ART UNIT PAPER NUMBER
STE. 3400, FOUR EMBARCADERO CENTER SAN FRANCISCO, CA 94111	267	4
5m. 1mm. 31255, 5m 34211	2.07	DATE MAILED:
This is a communication from the examiner in charge of your application. COMMISSIONER OF PATERTS AND TRADEMARKS		09/10/91
This application has been examined Responsive to commun)	
A shortened statutory period for response to this action is set to expire _ Failure to respond within the period for response will cause the applicati	month(s), ion to become abandone	
Part I THE FOLLOWING ATTACHMENT(S) ARE PART OF THIS AC	CTION:	
1. Notice of References Cited by Examiner, PTO-892.	2. Notice	re Patent Drawing, PTO-948.
3. Notice of Art Cited by Applicant, PTO-1449.	n-/) /	of Informal Ratent Application, Form PTO-152
5. Information on How to Effect Drawing Changes, PTO-1474.	6. LLV _L_/_	SV - P TIME DIGITISTICA
Part II SUMMARY OF ACTION		
1. T Claims - 1-16		are pending in the application
Of the above, claims		are withdrawn from consideration
2. Claims		have been cancelled.
3. Claims		are allowed.
4. D Claims 1-16		are rejected.
5. Claims		
		re subject to restriction or election requirement.
7. This application has been filed with informal drawings under		
		e acceptable for examination purposes.
8. Formal drawings are required in response to this Office action		
 The corrected or substitute drawings have been received on are acceptable; and acceptable (see explanation or 		Under 37 C.F.R. 1.84 these drawing p, PTO-948).
The proposed additional or substitute sheet(s) of drawings, i examiner; disapproved by the examiner (see explanation).		has (have) been
11. The proposed drawing correction, filed	, has been 👅 appro	oved; 🔲 disapproved (see explanation).
12. Acknowledgement is made of the claim for priority under U.S been filed in parent application, serial no.		
13. Since this application apppears to be in condition for allowan accordance with the practice under Ex parte Quayle, 1935 C		ters, prosecution as to the merits is closed in
14. Other		

Serial No. 685,878

-2-

Art Unit 267A

- The Abstract of the Disclosure is objected to because the abstract is of excessive length, and in multi-paragraph form. Correction is required. See M.P.E.P. \$ 608.01(b).
- Applicant is reminded of the proper language and format of an Abstract of the Disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the mange of 50 to 250 words. It is important that the abstract not exceed 250 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said", should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. § 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.
- Claims 1, 3, and 8 are rejected under 35 U.S.C. § 102(e) as being anticipated by Wiscombe et al, Bove et al, Leedy, Cho, or

--3--

Petrich.

Wiscombe et al, Bove et al, Leedy, Cho, and Petrich each show a circuit board with test circuitry thereupon, with test signal ports, and connectors connecting to connectors of tested circuitry. The connecting means comprises conductive traces, pads, and probe pins.

Claim 4 is rejected under 35 U.S.C. \$ 102(e) as being anticipated by Cho.

Cho applies and above, and in addition shows a central aperture, with probe pins extending into it.

Claim 6 is rejected under 35 U.S.C. § 102(e) as being anticipated by Cho or Petrich.

Cho and Petrich each apply as for claims 1, 3, and 8, and in addition show ac/de parametric testing with analog circuitry.

Claim 7 is rejected under 35 U.S.C. \$ 102(e) and (b) as being anticipated by Petrich or Bove et al.

Bove et al applies as for claims 1, 3, and 8, and in addition shows test circuitry (figs. 2, 3) comprising bidirectional, user-oriented cells. Petrich applies as for claims 1, 3, and 8, and in addition (see fig. 7) shows bidirectional "pin electronics cards" cells being configured by a user for testing.

The following is a quotation of 35 U.S.C. § 103 which forms the basis for all obviousness rejections set forth in this Office action:

-4-

A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Subject matter developed by another person, which qualifies as prior art only under subsection (f) or (g) of section 102of this title, shall not preclude patentability under this section where the subject matter and the claimed invention were, at the time the invention was made, owned by the same person or subject to an obligation of assignment to the same person.

Claim 2 is rejected under 35 U.S.C. \$ 103 as being unpatentable over Bove et al, or Petrich, or Leedy, or Cho, or Wiscombe et al.

Bove, Petrich, Leedy, Cho, and Wiscombe apply as for claims 1, 3, and 8. In addition, it would be a matter of conventional design choice to configure the circuitry to IEEE std. 1149.1 given that is an official, conventional standard, able to mate with many types of tested circuits.

10. Claim 5 is rejected under 35 U.S.C. § 103 as being unpatentable over Bove et al, Leedy, or Wiscombe as applied to claims 1, 3, and 8 above, and further in view of Sokolich.

Sokolich shows a probe card (component 16) comprising scantesting shift registers.

It would have been obvious to one ordinarily-skilled in the art to modify the apparatus of Bove, Leedy, or Wiscombe as taught

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by Sokolich, to provide shift registers for the test circuitry, in order to efficiently parallel test a multitude of IC circuits quickly; and to further modify to (in particular to boundary scantesting using the shift registers, in order to accurately test complex IC circuitry.

11. Claims 9, 11, and 14-16 are rejected under 35 U.S.C. \$ 102(e) as being anticipated by Petrich.

Petrich applies as for claims 1, 3, and 8; and in addition shows selection means (component 102 of fig. 7) which can select internal (from components 84, 84, 86 et al) or external (from component 60) test signals.

12. Claims 9, 11, and 16 are rejected under 35 U.S.C. \$ 103 as being unpatentable over Bove et al, or Leedy or Cho or Wiscombe as applied to claims 1, 3, and 8 above, and further in view of Hiwada et al or Petrich.

Hiwada and Petrich show a test head apparatus with test circuitry selecting either internal or external test signals.

It would have been obvious to one ordinarily-skilled in the art to modify the test apparatus of Bove or Leedy or Cho or Wiscombe as taught by Hiwada or Petrich, to enable a wider array of test signals to be generated (permitting more comprehensive testing) by providing internal/external test selection means. 13. Claim 10 is rejected under 35 U.S.C. \$ 103 as being unpatentable over Petrich; or Bove et al, Leedy, Cho, or Wiscombe

--6--

in view of Hiwada or Petrich.

Petrich, Bove, Leedy, Cho, Wiscombe, and Hiwada each apply as discussed above. In addition, it would further be a matter of conventional design choice to have the test head follow IEEE std. 1149.1, as discussed for claim 2.

14. Claim 12 is rejected under 35 U.S.C. § 103 as being unpatentable over Cho as applied to claims 4, 9, 11, and 16 above, and further in view of Hiwada or Petrich.

Hiwada and Petrich apply as for claims 9, 11, and 16. It would have been obvious to one ordinarily-skilled in the art to modify the apparatus of Cho as taught by Hiwada or Petrich, as discussed for claims 9, 11, and 16.

15. Claim 13 is rejected under 35 U.S.C. § 103 as being unpatentable over Bove et al, Leedy, or Wiscombe in view of Hiwada or Petrich as applied to claims 9, 11, and 16 above, and further in view of Sokolich.

Sokolich applies as for claim 5. It would have been obvious to one ordinarily-skilled in the art to modify the apparatus of Bove, Leedy, or Wiscombe as taught by Hiwada or Petrich; and to further modify as taught by Sokolich as per claim 5.

16. Claim 14 is rejected under 35 U.S.C. § 103 as being unpatentable over Cho in view of Hiwada or Petrich.

Cho, Petrich, and Hiwada apply as for claims 9, 11, and 16, and in addition, Cho shows ac/dc parametric testing.

Serial No. 685,878

Art Unit 267A

-7-

17. Claim 15 is rejected under 35 U.S.C. \$ 103 as being unpatentable over Bove in view of Hiwada or Petrich.

Bove, Hiwada, and Petrich apparently as for claims 9, 11, and 16; and in addition Bove shows bi-directional cells which are user-oriented.

18. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Hsieh shows boundary-scan testing.

Maelzer and Dehmel each show PCB test head apparatus.

September 03, 1991

SUPERVISORY PATENT EXAMINER

ART UNIT 267A

TO SEPARATE, HOLD TOP AND BOTTOM EDGES, SNAP-APART AND DISCARD CARBON

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PTO **FORM** 948 (REV. 5-90)

U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office	ATTACHMENT TO PAPER NUMBER 4
	APPLICATION NUMBER

NOTICE OF DRAFTSMAN'S PATENT DRAWING REVIEW

THE PTO DRAFTSMEN REVIEW ALL ORIGINALLY FILED DRAWINGS REGARDLESS

e drawings filed $4(15/9)$	
are approved.	
are objected to under 37 CFR 1.84 for the reason(s) checorrected drawings at the appropriate time. Corrected don the back of this Notice.	necked below. The examiner will require submission of new, rawings must be submitted according to the instructions listed
1. Paper and ink. 37 CFR 1.84(a)	4. Hatching and Shading. 37 CFR 1.84(d)
Sheet(s)Poor.	Shade Lines are Required.
2. Size of Sheet and Margins. 37 CFR 1.84(b)	Fig(s)
Acceptable Paper Sizes and Margins	Criss-Cross Hatching Not Allowed.
Paper Size 8 1/2 by 8 14-59 DIN size A4	Fig(s)
Margin 14 inches 18 inches 21 by 29.7 cm.	Double Line Hatching Not Allowed.
Left 1/4 inch / 1/4 inch / 2.5 cm.	Fig(s)
Right 1/4 inch 1/4 inch 1.5 cm.	Parts in Section Must be Hatched.
Bottom 1/4 inch 1/4 inch 1.0 cm.	5. Reference Characters. 37 CFR 1.84(f)
Proper Size Paper Required. All Sheets Must be Same Size. Sheet(s)	Reference Characters Poor or Incorrectly Sized Fig(s)
Proper Margins Required.	Reference Characters Placed Incorrectly.
Sheet(s)	6. Views. 37 CFR 1.84(i) & (j)
LEFT DBOTTOM	Figures Must be Numbered Properly.
3. Character of Lines. 37 CFR 1.84(c)	
Lines Pale of Rough and Blurred must be sharp Fig(s)	Figures Must Not be Connected.
Solid Black Shading Not Allowed.	7. Photographs Not Approved.
Fig(s) Telephone inquires concerning this review should	8. A other legad most be uniform
Telephone inquires concerning this review should number (703) 557-6404.	be directed to the Chief Draftsmarkat telephone
γ_{ℓ}	alzılaı
Reviewing Draftsman	<u> </u>